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**AMENDMENTS TO THE CLAIMS**

Please amend claims 1, 6, 10, 13-16, and 18 and cancel claim 2 as follows:

1. (Currently Amended) A transparent composite comprising:
  - (a) a first layer comprising a sheet of transparent substrate polymer material; and
  - (b) a second layer comprising a transparent fluorocarbon polymer sheet film;  
wherein the second layer is bonded to the first layer by a transparent adhesive layer disposed between the first layer and the second layer.
2. (Cancelled)
3. (Original) The transparent composite of claim 1 wherein the first layer is a polycarbonate.
4. (Original) The transparent composite of claim 1 wherein the second layer consists essentially of a transparent fluorocarbon polymer.
5. (Original) The transparent composite of claim 1 wherein the second layer comprises a transparent material having the formula  $[-CF_2 - CF_2 - CH_2 - CH_2 -]_n$ .
6. (Currently Amended) The transparent composite of claim 1 wherein the second layer consists essentially of a transparent material having the formula  $[-CF_2 - CF_2 - CH_2 - CH_2 - CH_2 -]_n [-CF_2 - CF_2 - CH_2 - CH_2 -]_m$ .
7. (Original) The transparent composite of claim 1 wherein the second layer comprises a transparent material having the formula  $[-CF_2 - CF_2 - CH_2 - CH_2 -]_n$ , where n is of a value such that the transparent fluorocarbon polymer has a density between 1.7 and 1.8 and has a tensile strength of between about 5,000 psi at 25°C and 7,000 psi at 25°C.
8. (Original) The transparent composite of claim 1 wherein the second layer consists essentially

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of a transparent material having the formula  $[-CF_2 - CF_2 - CH_2 - CH_2]_n$ , where n is of a value such that transparent fluorocarbon polymer has a density between 1.7 and 1.8 and has a tensile strength of between about 5,000 psi at 25°C and 7,000 psi at 25°C.

9. (Original) The transparent composite of claim 1 wherein the second layer comprises a transparent material having the formula  $[-CF_2 - CF_2 - CF_2 - CF(CF_3) -]_n$ .

10. (Currently Amended) The transparent composite of claim 1 wherein the second layer consists essentially of a transparent material having the formula  $[-CF_2 - CF_2 - CF_2 - CF(CF_3) -]_n$   ~~$[-CF_2 - CF_2 - CF_2 - CF(CF_3) -]_n$~~ .

11. (Original) The transparent composite of claim 1 wherein the second layer comprises a transparent material having the formula  $[-CF_2 - CF_2 - CF(OC_3F_7) - CF_2 -]_n$ .

12. (Original) The transparent composite of claim 1 wherein the second layer consists essentially of a transparent material having the formula  $[-CF_2 - CF_2 - CF(OC_3F_7) - CF_2 -]_n$ .

13. (Currently Amended) The transparent composite of claim 1 wherein the second layer comprises a transparent material having the formula  $[-CFCF_2 - CF_2 -]_n$   ~~$[-CFCF_2 - CF_2 -]_n$~~   $[[[-CF_2 - CFCF_2 -]_n] - CF_2 - CH_2 -]_m]_x$ .

14. (Currently Amended) The transparent composite of claim 1 wherein the second layer consists essentially of a transparent material having the formula  $[-CFCF_2 - CF_2 -]_n$   ~~$[-CFCF_2 - CF_2 -]_n$~~   $[[[-CF_2 - CFCF_2 -]_n] - CF_2 - CH_2 -]_m]_x$ .

15. (Currently Amended) The transparent composite of claim 1 wherein the second layer comprises a transparent material having the formula  $[-CF_2 - CFCF_2 - CF_2 - CFCF_2 -]_n$   ~~$[-CF_2 - CFCF_2 - CF_2 - CFCF_2 -]_n$~~   $[[[-CH_2 - CH_2 -]_n] - CF_2 - CFCF_2 -]_m]_x$ .

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16. (Currently Amended) The transparent composite of claim 1 wherein the second layer consists essentially of a transparent material having the formula  $[-CF_2-CFCl-CF_2-CFCl-]_n$   $[[CH_2-CH_2-]_n[-CF_2-CFCl-]_m]_{x..}$ .

17. (Original) The transparent composite of claim 1 wherein the first layer is flexible.

18. (Currently Amended) A chemical laboratory reaction enclosure having a transparent window, the transparent window being a transparent composite comprising:

- (a) a first layer comprising a sheet of substrate polymer material; and
- (b) a second layer comprising a transparent fluorocarbon polymer sheet;

wherein the second layer is bonded to the first layer by a transparent adhesive layer disposed between the first layer and the second layer.

19. (Original) The chemical reaction laboratory reaction enclosure of claim 18 wherein the second layer consists essentially of a transparent fluorocarbon polymer.

20. (Original) The chemical reaction laboratory reaction enclosure of claim 18 wherein the second layer comprises a transparent material having the formula  $[-CF_2-CF_2-CH_2-CH_2-]_n$ .

21. (Original) The chemical reaction laboratory reaction enclosure of claim 18 wherein the second layer consists essentially of a transparent material having the formula  $[-CF_2-CF_2-CH_2-CH_2]_n$ .

22. (Original) The chemical reaction laboratory reaction enclosure of claim 18 wherein the second layer comprises a transparent material having the formula  $[-CF_2-CF_2-CH_2-CH_2-]_n$ , where n is of a value such that the transparent fluorocarbon polymer has a density between 1.7 and 1.8 and has a tensile strength of between about 5,000 psi at 25°C and 7,000 psi at 25°C.

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23. (Original) The chemical reaction laboratory reaction enclosure of claim 18 wherein the second layer consists essentially of a transparent material having the formula  $[-CF_2 - CF_2 - CH_2 - CH_2 -]_n$ , where n is of a value such that the transparent fluorocarbon polymer has a density between 1.7 and 1.8 and has a tensile strength of between about 5,000 psi at 25°C and 7,000 psi at 25°C.